CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No : CTCE/BBMP/W.No.02/KRIDL/CSR-01/240a/CEMENT/2016-17 Date: 10.01.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Providing and fixing Cobble stone pathway at Yelahanka New Town 5th Phase in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/101/2016-17 Dated: 05.01.2017
* Sample ID	:	Cement
Sample Received on	:	07.01.2017
Period of Testing	:	07.01.2017 to 10.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/240a/SAND-Gradation/2016-17 10.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	: Providing and fixing Cobble stone pathway at Yelahanka New Town 5th Phase in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/101/2016-17 Dated: 05.01.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 07.01.2017
Date of Testing	: 10.01.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.70	90-100	90-100	90-100	95-100
2.36	74.70	60-95	75-100	85-100	95-100
1.18	51.70	30-70	55-90	75-100	90-100
600 Micron	21.90	15-34	35-59	60-79	80-100
300 Micron	16.30	5-20	8-30	12-40	15-50
150 Micron	5.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/240a/AGG/GR/2016-17 10.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Providing and fixing Cobble stone pathway at Yelahanka New Town 5th Phase in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/101/2016-17 Dated: 05.01.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2016)
Sample Received on	:	07.01.2017
Date of Testing	:	10.01.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2016)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.54	95-100	85-100
20	35.04	30-70	0-20
10	13.24	10-35	0-5
4.75	2.66	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/240a/C.C.Core/2016-17 10.01.2017

TEST REPORT ON CONCRETE CORE

* **Name of Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* **Name of Agency** : **Technical Manager (West),** KRIDL, Bangalore.
* **Name of work** : Providing and fixing Cobble stone pathway at Yelahanka New Town 5th Phase in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* **Reference** BBMP/EE(YNK.D)/W.O/101/2016-17 Dated: 05.01.2017

Techinical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.

Sample ID : Kerb Stone

Sample Received on : 07.01.2017

Date of Testing : 10.01.2017

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.404	2509.21	1.64	0.961	25.30	12.89	13.92	14.48	18.10
2	50.00	83.00	0.410	2515.80	1.66	0.963	24.20	12.32	13.31	12.82	16.03
3	50.00	84.00	0.417	2528.29	1.68	0.965	26.50	13.50	14.58	14.07	17.59

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Job No.: CTCE/BBMP/W.No.02/KRIDL/Pavers/2016-17 10.01.2017

TEST REPORT ON PHYSICAL TESTS OF PAVER BLOCKS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL., Bangalore.
* Name of work	:	Providing and fixing Cobble stone pathway at Yelahanka New Town 5th Phase in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/101/2016-17 Dated: 05.01.2017
* Samples ID	:	Paver Blocks
Technical Reference	:	IS 15658-2006
Date of Testing	:	10.01.2017

The results of the tests conducted on the Paver Blocks sample are as follows:

1.THICKNESS:

Sl No	Identification	Thickness, mm	Average thickness, mm
1	PB1	60.15	60.20
2	PB2	60.20	
3	PB3	60.25	

2.COMPRESSIVE STRENGTH:

Sl No	Identification	Load in Kilo-Newton	Cross sectional area, mm2	Compressive strength
1	PB1	682.3	24200	28.19
2	PB2	659.8	24200	27.26
3	PB3	635.6	24200	26.26

*Information is furnished by the Customer/Representative.

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